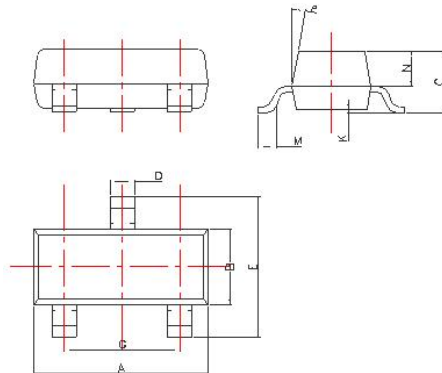
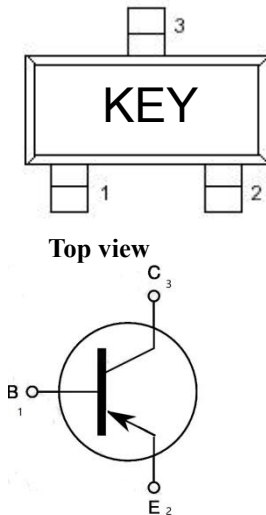


CDT8050Y-ME

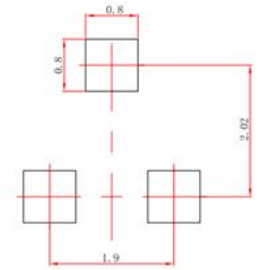
TRANSISTOR

Marking: KEY

SOT-23 Dimension

SOT-23
Suggested Layout

DIM	Millimeters
A	2.85~3.04
B	1.30±0.10
C	1.00±0.10
D	0.45±0.05
E	2.25~2.55
G	1.90±0.1
K	0.00-0.10
M	0.20 min
N	0.60±0.10
P	7±2°



mm(±0.05mm)

MAXIMUM RATINGS (Ta=25°C)

Characteristic	Symbol	Rating	Unit
Collector-Emitter Voltage	V _{CEO}	25	Vdc
Collector-Base Voltage	V _{CB0}	40	Vdc
Emitter-Base Voltage	V _{EBO}	5.0	Vdc
Collector Current - Continuous	I _C	1500	mAdc
Base Current	I _B	160	mAdc

THERMAL CHARACTERISTICS

Characteristic	Symbol	Max	Unit
Collector Power Dissipation	P _c	300	mW
Junction and Storage Temperature	T _j , T _{stg}	150 , -55 ~150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise noted)

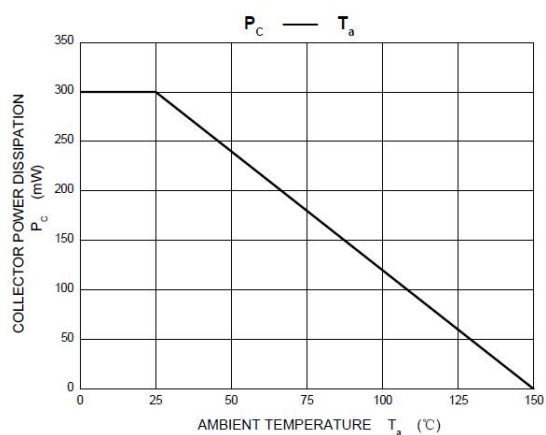
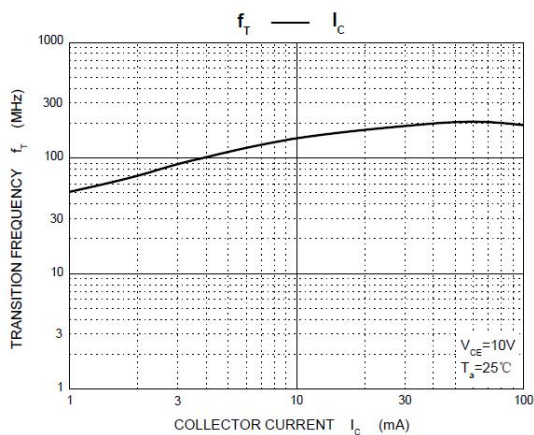
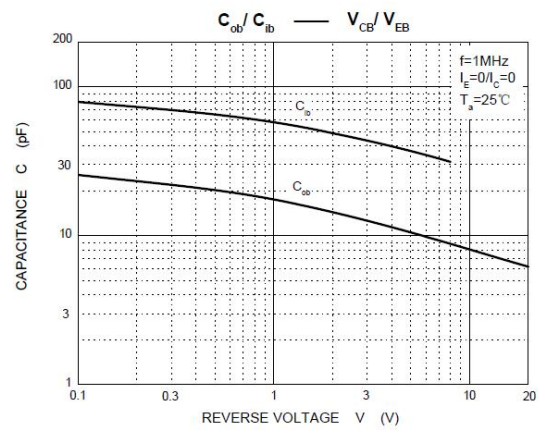
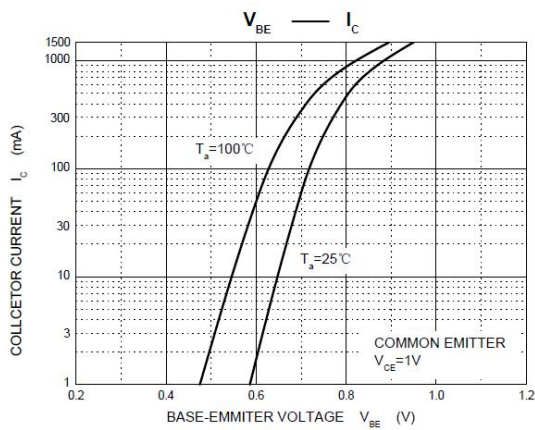
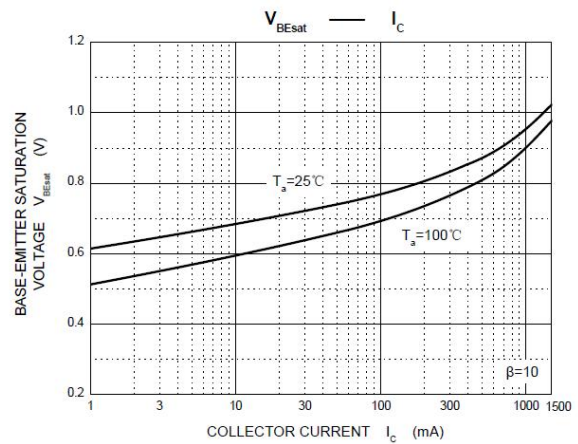
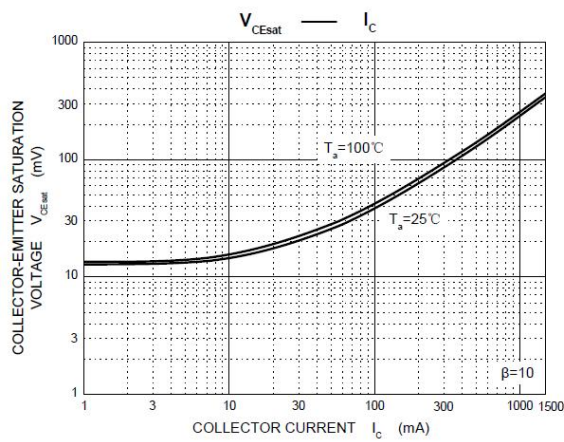
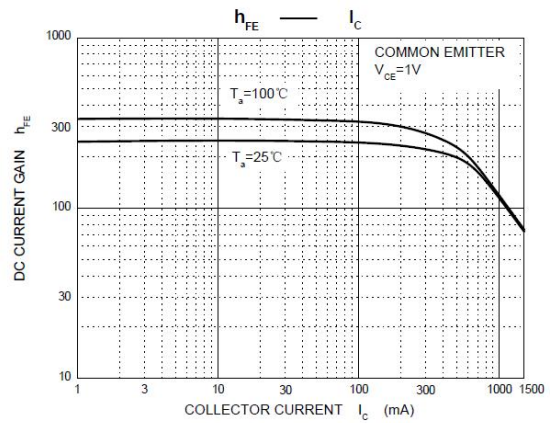
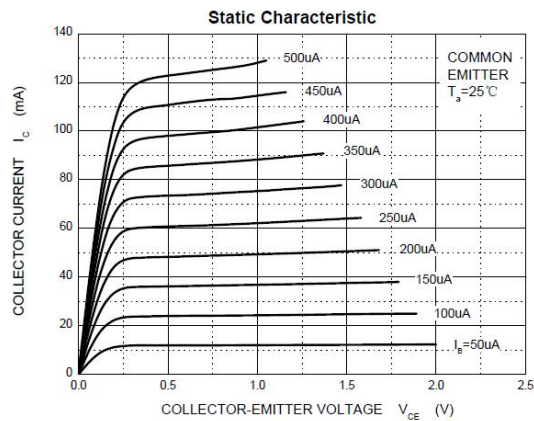
Characteristic	Symbol	Test Condition	Min	Type	Max	Unit
Collector Cutoff Current	I _{CB0}	V _{CB} =30V, I _E =0	--	--	0.1	μA
Collector- Emitter Cutoff Current	I _{CEO}	V _{CB} =20V, I _E =0	--	--	0.1	μA
Emitter Cutoff Current	I _{EBO}	V _{EB} =5V, I _C =0	--	--	0.1	μA
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	I _C =10mA	25	--	--	V
Collector- Base Breakdown Voltage	V _{(BR)CBO}	I _C =100μA	40	--	--	V
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	I _E =100μA	5	--	--	V
DC Current Gain	h _{FE} (1)	V _{CE} =1V, I _C =100mA	160	--	300	--
	h _{FE} (2)	V _{CE} =1V, I _C =1.5A	40	--	--	
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =1.5A, I _B =150mA	--	--	0.6	V
Base Emitter Voltage	V _{BE}	V _{CE} =1V, I _C =10mA	100	0.8	1.2	V
Transition Frequency	f _T	V _{CE} =5V, I _C =10mA	--	120	--	MHz
Collector Output Capacitance	V _{ob}	V _{CB} =10V, I _E =0, f=1MHz	--	13	30	pF

- FR-5=1.0x0.75x0.062in.
- Alumina=0.4x0.3x0.024in, 99.5% alumina.
- Pulse Width ≤300μS; Duty Cycle ≤2.0%.

CDT8050Y-ME

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Typical Characteristics



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.